

Active Recombinant Human WNT5A Protein

Cat. No. WNT5A-118H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human Wnt-5a protein containing 343aa (Gln38-Lys380) without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants.
Bio-activity	Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 0.1-0.5 µg/mL, in the presence of 5 ng/mL rmWnt-3a.
Molecular Mass	38 kDa
Product-Related	38-380

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Proteins

Storage At -80 centigrade. Avoid repeated freeze-thaw cycles.

Storage Buffer PBS

GENE INFORMATION

Gene Name [WNT5A Wnt family member 5A \[Homo sapiens \(human\) \]](#)

Official Symbol [WNT5A](#)

Synonyms WNT5A; Wnt family member 5A; hWNT5A; protein Wnt-5a; Names; WNT-5A protein; epididymis secretory sperm binding protein; wingless-type MMTV integration site family, member 5A

Gene ID [7474](#)

mRNA Refseq [NM_001256105](#)

Protein Refseq [NP_001243034](#)

MIM [164975](#)

UniProt ID [P41221](#)

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